

AMENDMENT TO THE CLAIMS

Claims 1-18 (canceled)

19. (new) A method for assembling a battery electrode groups comprising the steps of:

forming a positive plate grid having a plurality of notches;

forming a negative plate grid having a plurality of notches;

providing said positive plate grid and said negative plate grid with insulating separators respectively;

embedding said positive plate grid and said negative plate grid each other such that said plurality of notches of said positive plate grid are opposite to a plurality of protruding portions of said negative plate grid and said plurality of notches of said negative plate grid are opposite to a plurality of protruding portions of said positive plate grid respectively; and

folding said positive plate and said negative plate along the middle lines between adjacent said protruding portions of said positive plate grid and said negative plate grid.

20. (new) The method for assembling a battery electrode group according to claim 19 further comprising a step of folding said embedded positive plate grid and negative plate grid into a continuous S-shape.

21. (new) The method for assembling a battery electrode group according to claim 19 further comprising a step of pasting

positive active material or negative active material on said positive plate grid and said negative plate grid.

22. (new) The method for assembling a battery electrode group according to claim 19 wherein said positive plate grid and said negative plate grid are divided into two sets of halves at the middle of each of said plurality of notches of said positive plate grid and said negative plate grid, one set of halves is pasted with positive active material and the other set of halves is pasted with negative active material.

23. (new) The method for assembling a battery electrode group according to claim 19 wherein the plate grid material is made from pure lead, lead-base alloy, iron-base alloy, copper-base alloy or nickel-base alloy.

24. (new) The method for assembling a battery electrode group according to claim 23 wherein the plate grid material is one of the forms of strip, wire, plate, foam, or net.

25. (new) A battery electrode group comprising:  
a positive plate grid having a plurality of notches;  
a negative plate grid having a plurality of notches;  
insulating separators covering said positive plate grid  
and said negative plate grid respectively;  
wherein said positive plate grid and said negative  
plate grid each other such that said plurality of  
notches of said positive plate grid are opposite  
to a plurality of protruding portions of said  
negative plate grid and said plurality of notches  
of said negative plate grid are opposite to a  
plurality of protruding portions of said positive  
plate grid respectively, and said positive plate

and said negative plate are folded along the middle lines between adjacent protruding portions of said positive plate grid and said negative plate grid.

26. (new) The battery electrode group according to claim 25 wherein said positive plate grid and said negative plate grid are integrally formed by punching, expanding or weaving, and then cut into a desired length and width according to the size of the electrode group.

27. (new) The battery electrode group according to claim 25 wherein the plate grid material is made from pure lead, lead-base alloy, iron-base alloy, copper-base alloy, or nickel-base alloy.

28. (new) The battery electrode group according to claim 27 wherein the plate grid material is one of the forms of strip, wire, plate, foam, or net.

29. (new) The battery electrode group according to claim 25 wherein said positive plate grid and said negative plate grid are divided into two sets of halves at the middle of each of said plurality of notches of said positive plate grid and said negative plate grid, one set of halves is pasted with positive active material and the other set of halves is pasted with negative active material.